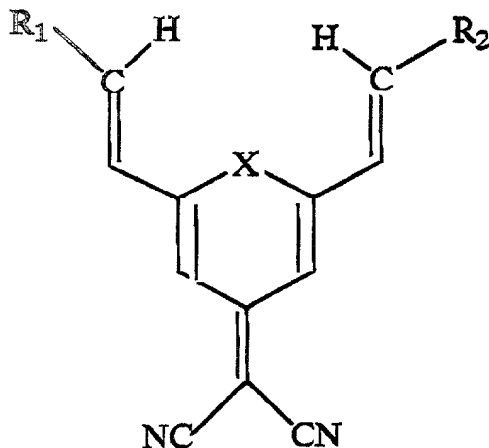


What is claimed is:

1. An organic electroluminescence device, comprising an anode and a cathode, and at least one organic luminescent medium layer containing a compound based on a structure of a chemical formula 6 as:

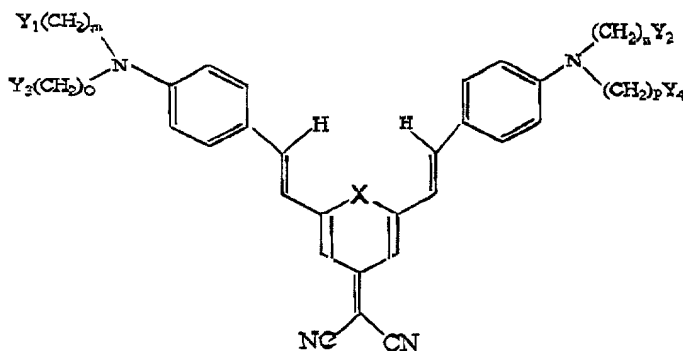
(Chemical Formula 6)



wherein X is O, S, CH₂ or NR, where R is a C₁-C₁₀ lower alkyl group; and R₁ and R₂ indicate a ring-containing tertiary amine or a fused ring having 2-(dialkylamino) thienyl ring.

2. The organic electroluminescence device as recited in claim 1, wherein said chemical formula 6 is a chemical formula 7 as:

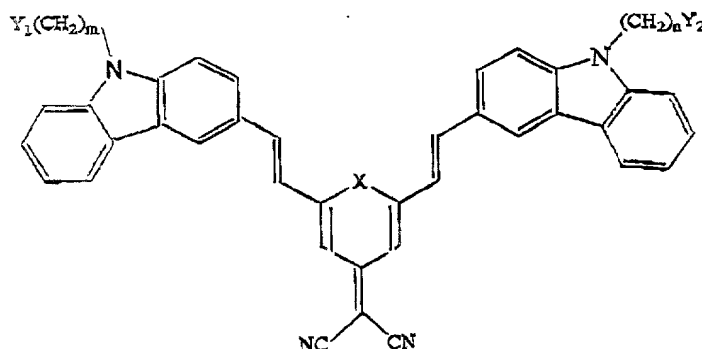
(Chemical Formula 7)



wherein X is O, S, CH₂ or NR, where R is a C₁-C₁₀ lower alkyl group; Y₁, Y₂, Y₃ and Y₄ may respectively indicate H, OH, or OL where L is a polymer linker subunit, and at least one of Y₁ and Y₂ is OL; and m, n, o and p may individually represent an integer between 1 and 20, or Y₁ and Y₃ may be ring type amine in which the sum of -CH₂CH₂-, m+o is an integer between 0 and 2; and Y₂ and Y₄ may be the ring type amine in which the sum of -CH₂CH₂ -, n+p is an integer between 0 and 2.

3. The organic electroluminescence device as recited in claim 1, wherein said chemical formula 6 is a chemical formula 8 which is as, e.g.,

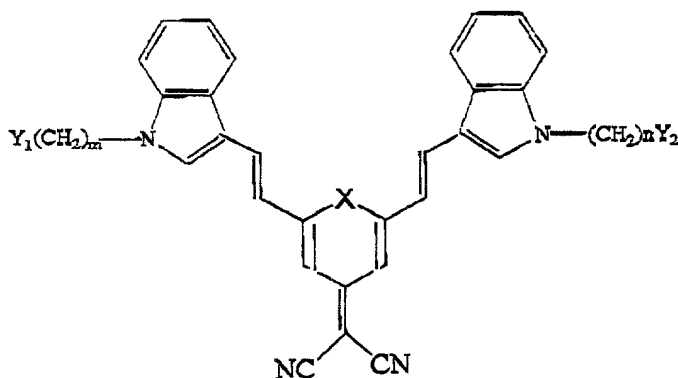
(Chemical Formula 8)



wherein X is O, S, CH₂ or NR, where R is a C₁-C₁₀ lower alkyl group; Y₁ and Y₂ may respectively indicate H, OH, or OL where L is a polymer linker subunit, and at least one of Y₁ and Y₂ is OL; and m, n, o and p may individually represent an integer between 1 and 20.

4. The organic electroluminescence device as recited in claim 1, wherein said chemical formula 6 is a chemical formula 9 as,

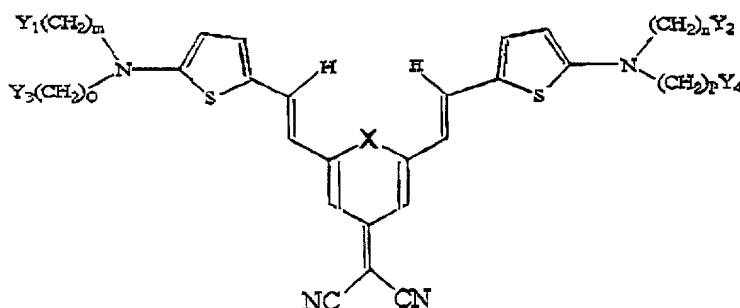
(Chemical Formula 9)



wherein X is O, S, CH₂ or NR, where R is a C₁-C₁₀ lower alkyl group; Y₁ and Y₂ may respectively indicate H, OH, or OL where L is a polymer linker subunit, and at least one of Y₁ and Y₂ is OL; and m, n, o and p may individually represent an integer between 1 and 20.

5. The organic electroluminescence device as recited in claim 1, wherein said chemical formula 6 is a chemical formula 10 as,

(Chemical Formula 10)



wherein X is O, S, CH₂ or NR, where R is a C₁-C₁₀ lower alkyl group; Y₁, Y₂, Y₃ and Y₄ may respectively indicate H, OH, or OL where L is a polymer linker subunit, and at least one of Y₁ and Y₂ is OL; and m, n, o and p may individually represent an integer between 1 and 20, or Y₁ and Y₃ may be ring type amine in which the sum of -CH₂CH₂-, m+o is an integer between 0 and 2; and Y₂ and Y₄ may be the ring type amine in which the sum of -CH₂CH₂ -, n+p is an integer between 0 and 2.

6. The organic electroluminescence device as recited in claim 1, wherein X is O.

7. The organic electroluminescence device as recited in claim 1, wherein said host material of organic emitting layer is tris-(8-hydroxyquinoline)-aluminum (Alq₃).

8. The organic electroluminescence device as recited in

claim 1, wherein said organic material is provided with a first dielectric layer formed on an anode, and/or is provided with a second dielectric layer formed on a under part of the cathode.

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9. The method as recited in claim 1, wherein said step of making the organic layer includes the step of uniformly mixing the compound of the chemical formula 6 in polymers matrix and doping it.

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10. The organic electroluminescence device as recited in claim 1, wherein a compound of a chemical formula 6 is contained into said organic emitting layer by a concentration of 20 weight % and below based on a weight of a host material.

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11. A display comprising at least one organic electroluminescence device, wherein a color emitted by at least one said organic electroluminescence device is made by making an organic emitting layer containing an emitting material based on a structure of a chemical formula 6 between an anode and a cathode.

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